

REMARKS

Applicants respectfully request reconsideration of this application as amended. Claims 1-3, 5, 7-8, 13, 16-18, 21-23 and 25 have been amended to present the claims in better form for allowance and for possible consideration on appeal. Applicants respectfully request the Examiner to accept the proposed amendments. Claims 6, 9-12, 15, 20 and 26-30 have been cancelled without prejudice. No new claims have been added. Therefore, claims 1-5, 7-8, 13-14, 16-19 and 21-25 are presented for examination.

35 U.S.C. § 102 Rejection

Claims 1-4, 13-14, 18-19 and 22-25 stand rejected under 35 U.S.C. §102(e) as being anticipated by Emer, et al., U.S. Patent No. 6,493,741, (“Emer”).

Claim 1, as amended, recites:

A method comprising:
monitoring a node associated with a contended lock;
identifying a processor waiting for the contended lock;
putting the processor to sleep until an event occurs;
relinquishing resources of the sleeping processor; and
forming larger resources for non-sleeping processors to utilize
while the processor sleeps, the larger resources including
the relinquished resources.
(emphasis provided)

Applicants submit that Emer discloses “[u]pon execution of a quiesce request instruction, quiesce logic . . . starts a quiesce timer, [and] *the quiesce logic sets the [thread processing unit] TPU’s state to quiesce mode, that is, the TPU is quiesced.*” (col. 5, lines 62-67; emphasis provided). Emer further discloses that a “QUIESCE is a conditional instruction, i.e. a request to quiesce, *or halt, execution of the thread*

executing the QUIESCE.” (col. 5, lines 34-36; emphasis provided). When the *“QUIESCE instruction is executed . . . [the] execution of the thread is halted . . . the TPU ceases executing instructions from the program [and] . . . the TPU is quiesced.”* (col. 7 lines 33-36 and col. 8, 46-48; emphasis provided).

In contrast, claim 1, as amended, in pertinent part recites “identifying a processor waiting for the contended lock . . . relinquishing resources of the sleeping processor; and forming larger resources for non-sleeping processors to utilize while the processor sleeps, the larger resources including the relinquished resources. Emer does not teach or reasonably suggest all the feature of claim 1. Accordingly, Applicants respectfully request the withdrawal of the rejection of claim 1 and its dependent claims.

Claims 13, 18 and 22 include limitations similar to those of claim 1. Accordingly, Applicants respectfully request the withdrawal of the rejection of claims 13, 18 and 22 and their dependent claims.

35 U.S.C. § 103 Rejection

Claims 5 and 9-12 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Emer in view of Venkatasubramanian, U.S. Patent Application Publication No. 2003/0236816, (“Ven”).

Claims 6-7, 15-16, 20-21 and 26 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Emer in view of Panwar, U.S. Patent No. 6,035, 674, (“Panwar”).

Claims 8 and 17 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Emer and Panwar in view of Rodgers, et al., U.S. Patent Application Publication No. 2003/0126186, (“Rodgers”).

Claims 6, 9-12, 15, 20 and 26 have been cancelled without prejudice.

Claims 5, 7-8, 16, 17 and 21 depend from one of claims 1, 13 and 18 and thus include all the limitations of their base claim. Accordingly, Applicants respectfully request the withdrawal of the rejection of claims 5, 7-8, 16, 17 and 21.

Conclusion

In light of the foregoing, reconsideration and allowance of the claims is hereby earnestly requested.

Invitation for a Telephone Interview

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Request for an Extension of Time

Applicants respectfully petition for an extension of time to respond to the outstanding Office Action pursuant to 37 C.F.R. § 1.136(a) should one be necessary. Please charge our Deposit Account No. 02-2666 to cover the necessary fee under 37 C.F.R. § 1.17(a) for such an extension.

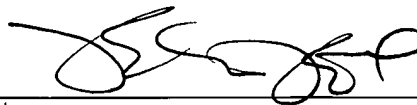
Charge our Deposit Account

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

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Date: June 19, 2006



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